

REMARKS

STATUS OF CLAIMS

Claims 1 has been amended, and claims 2 and 3 have been canceled. Claim 1 is now pending in this application. No new matter has been added.

OBJECTION OF CLAIM 3

Claim 3 has been objected to for having a minor informality. More specifically, claim 1, from which claim 3 depend, does not include "an output circuit". Consequently, the Examiner understands that claim 3 should depend from claim 1, which does recite "an output circuit".

The objection is moot as to canceled claim 3.

REJECTION OF CLAIMS UNDER 35 U.S.C. § 112, FIRST PARAGRAPH

Claims 2 and 3 have been rejected under 35 U.S.C. §112, first paragraph, as failing to comply with the written description requirement. The Examiner contends that the claims contain subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

The Examiner contends that in claim 2, the lowpass filter cannot be provided with unbalanced signals outputs because the originally filed specification fails to provide support for such a disclosure when the IF amplifying unit provides a balanced output (see Office Action, page 4).

The rejection is moot as to canceled claims 2 and 3. However, independent claim 1 has been amended and is believed to comply with the written description requirement of 35 U.S.C. §112, first paragraph.

REJECTION OF CLAIMS UNDER 35 U.S.C. § 103

Claim 1 has been rejected under 35 U.S.C. § 103(a) as being unpatentable over Harford (USPN 5,365,279) in view of Harford (USPN 5,479,137) and Martin (USPN 3,852,522).

It is believed that the claimed invention recited in amended independent claim 1 is distinguishable from a combination of Harford '279, Harford '479 and Martin. More specifically, Harford '279 discloses that the PIX IF chain is operated with *balanced signals* throughout, from the input signal applied to the first IF amplifier stage 32 from the PIX IF block filter 30 to the video detector 54 (see Harford '279, column 20, lines 28-49; and Fig. 9). In other words, in Harford '279 **a balanced signal is propagated throughout the chain**. In contrast with Harford '279, in the invention recited in independent claim 1 accepts an unbalanced signal and converts the signal to a balanced signal via the unbalance/balance converting circuit that is connected to the output of the lowpass filter. This balanced output is provided to a QAM demodulating circuit.

Harford '137 and Martin both fail to make up for the above-noted deficiencies of Harford '279. Consequently, amended independent claim 1 is patentable over Harford '279, Harford '479 and Martin, considered alone or in combination.

In view of the above, the allowance of claim 1, as amended, is respectfully solicited.

CONCLUSION

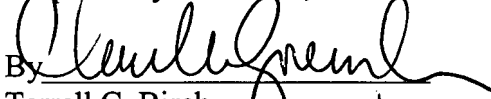
In view of the above amendment, applicant believes the pending application is in condition for allowance.

Should there be any outstanding matters that need to be resolved in the present application, the Examiner is respectfully requested to contact Edward J. Wise (Reg. No. 34,523) at the telephone number of the undersigned below, to conduct an interview in an effort to expedite prosecution in connection with the present application.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37.C.F.R. §§1.16 or 1.14; particularly, extension of time fees.

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Respectfully submitted,

By 

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